

ECHO IRELAND

Journal of the
Irish Radio Transmitters Society
September/October 2003



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The views expressed in Echo Ireland do not necessarily represent the views of the Society or the Editor

**Deadline for next edition
November 21st**



1980 - IRTS Past Presidents
Sean EI7CD, Harry EI2W, Jim EI8Z, Con EI9V, Leo EI6D

Calendar

**IRTS Committee Meeting
Portlaoise
November 1st**

**Mayo Rally
Nov 16th
Belmont Hotel, Knock**

**IRTS Annual Dinner
March 5th 2004**

**IRTS AGM
March 6th 2004**

**Limerick Rally
March 6th 2004.**

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Silent Key Dick King G3PFS

It was with deep regret that we learned of the sad news of the recent death of Dick King G3PFS who became a silent key on 26-07-2003.

Dick was a frequent caller into the WAI net on 7.068 MHz and had achieved the Basic, Bronze, Silver and Gold awards number 046 and number 024 for the Island award.

We express our deepest sympathy to his surviving relatives and friends
May he rest in peace.

Noel Mulvihill EI6HW for W.A.I.

Outgoing QSL Bureau

All cards for the outgoing bureau should be sent directly to the Outgoing manager at the address below. Cards sent to P.O. Box 462 may be delayed.

**Anthony Baldwin EI8JK,
Rathlin,
Kilcrohane,
Co. Cork.**

Morse Requirement Removed

ComReg have announced that with effect from 15th September 2003 a Morse Test is no longer required for access to the HF Bands. Accordingly, B licensees may now operate freely on all the HF Bands subject to the same power limits applicable to A licensees. No formal application is required to avail of this concession.

Because not all countries operating under the CEPT agreement have yet removed the mandatory Morse requirement, operation by B licensees on the HF Bands abroad is confined to those countries that have done so.

At this point there will be no change to existing callsigns. B licensees who wish to do so may apply for an A callsign but will be required to pass a Morse test. New licence applicants who have passed the Theory Test will continue to be issued with a callsign having a three letter suffix ending in B, unless they also pass a Morse Test.

Theory Examination

The IRTS Committee is very concerned that it has not been possible to arrange Theory Tests for some considerable time.

Following discussions with ComReg, agreement in principle has been reached to hold a Theory Test in Dublin later in the year.

Date and venue for this Exam has not yet been agreed but announcements will be made in good time in Echo Ireland and the Radio News.

In the meantime, those interested in sitting this examination should advise Derek O'Reilly of ComReg of their interest.

In due course, he will contact all applicants on his list with the date and venue.

Derek can be contacted on 01-???????

or

derek.oreilly@comreg.ie

News Bulletins and Readers

Sunday

Dublin	1045	144.275	SSB	Albert EI6AS
Dublin	1100	7.043	SSB	Colm EI3H

Wicklow	1130	7.068	SSB (as Gaeilge)	Sean EI7CD
Dublin	1145	145.525	FM	Gerry EI8CC

Dublin	1200	3.650	SSB	Paddy EI7GK
Tipperary	2030	145.450	FM	Sean EI5GH

Dublin	2130	145.525	FM	Brendan EI8IB
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Monday

Cork	2000	145.750	FM	As 1100
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Limerick	2000	145.725	FM	Tommy EI7IT
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Louth	2000	145.500		Gerry EI5HJ
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Galway	2000	145.625		As 1145
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Tuesday

Waterford	2130	145.650	FM	Con EI7DJB
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John EI8JA
Robbie EI8FZB

New Discussion Message Board at the EI5EM Website

Tony, EI5EM is currently in the process of updating his Amateur Radio Pages on the QSL.NET server.

A discussion message board has been added as part of the process.

This is available to all amateurs who are seeking components, equipment or general information on any aspect of the hobby, including items for sale.

It is hoped that the board will also be useful as a sounding board for personal views on amateur radio.

Tony has started the ball rolling by posting his own views on the almost imminent demise of the Morse requirement for obtaining a licence.

The message board can be accessed as a link from Tony's website at qsl.net.

The full address of the site is:
www.qsl.net/ei5em

If you wish to use this free service please confine postings to radio related topics and of course be courteous at all times.

Power Line Transmission a Cause for Concern

IARU Submits Paper to European Commission PLT Workshop

Of great concern to many Radio Amateurs at the moment is the advent of PLT or Power Line Transmissions. PLT is a means of delivering broadband internet connectivity via existing power lines infrastructure. The concern with PLT is that it is capable of generating excessive interference levels in the JF spectrum.

The European Commission is calling for input papers for a PLT workshop with national regulators to be held on the 16th of October in Belgium.

IARU Region 1 has submitted a detailed paper for the workshop, detailing the problems that PLT creates for HF communications in general with particular reference to interference to the amateur bands. The paper puts forward a case for sensible emission limits from PLT systems, and references research carried out by a number of organisations.

ESB announce Power Line Transmission experiments

ESB have announced that they are to commence experiments in Power Line Transmission (PLT) in October. PLT is a system whereby Broadband Internet connections are made available over power lines. The experiments are scheduled to take place in Port Laoise and Tuam, Co. Galway.

In experiments on the Continent and in the US, PLT has proven to be a very controversial system mainly due to the high level of interference it generates for other spectrum users - including Radio Amateurs.

Accordingly, IRTS has been in touch with ComReg to express concern that these experiments are now going ahead and to request that ComReg ensures that PLT can only take place in EI on a strictly non-interference basis.

Young Ham Wins Dxpedition Trip

Fourteen-year-old Daniel Bradke, W2AU, of Niskayuna, New York, will operate as part of the VP5X Contest Group for the CQ World Wide CW contest November 29-30. Bradke was the winner of a competition sponsored by the VP5X Contest Group, headed by David Kopacz, KY1V.

"Daniel's essay, operating skills and enthusiasm have moved our contest team to select him to be our first annual VP5X Young Ham Team Member," said an announcement on the VP5X Contest Group Web site <<http://www.vp5x.com/>>. That means an all expenses-paid trip for the contest DXpedition.

An Amateur Extra class licensee since age 11, Bradke can handle CW at 30 WPM. He's a member of the ARRL, the Yankee Clipper Contest Club <<http://www.ycc.org/>> and FISTS <<http://www.fists.org>>

More information on Daniel Bradke under his call sign listing on the QRZ.com Web site <<http://www.qrz.com/>>.

WORKED CROATIAN AMATEUR RADIO PREFIXES AWARD

The diploma is issued for confirmed contacts with Croatian amateur radio stations with different prefixes. All contacts after 5th July, 1992 are valid.

Classes:

- a) BASIC - award
Class I : confirmed 3 different 9A prefixes
Class II : confirmed 2 different 9A prefixes
- b) 9A - PFX Gold medal: confirmed 5 different 9A prefixes
- c) 9A - PFX Trophy: confirmed 10 different 9A prefixes.

In each class instead of one standard 9A prefix, as a joker, you can use any special 9A prefix: e.g. 9A2000, 9A900, 9A700 ...

The diploma is issued for the following categories: *CW*, *Phone*, *RTTY* and *Mixed*. All contacts on HF and WARC bands are allowed. The diploma is available for both 50 MHz and 144 MHz contacts as well, but only in the *Mixed* category.

Contacts through repeaters, packet radio or satellites are not allowed.

The diploma is also available to short-wave listeners (SWL), under the same conditions as for licensed hams.

Award applicants do not need to send received QSL cards; however, they must have them in their possession. The award manager will have the right to check one, or several, cards on request. The award is available after receipt of a properly filled application form. Data requested in this application form are the following: callsign, date, time, frequency, mode and signal report.

Basic 9A - *PFX award* fee is 6 USD or 5 EUR for hams outside Croatia.
Medal fee is 17 USD or 15 EUR.
9A - *PFX Trophy* fee is 35 USD or 30 EUR.

All applications for 9A - PFX Award should be directed to 9A - PFX Award Manager:
9A - PFX Award Manager
Kresimir Juratovic, 9A7K
P.O. Box 88, HR - 48001 Koprivnica, CROATIA.

WORKED CROATIAN AMATEUR RADIO PREFIXES AWARD



This is to certify that

Operator of amateur station _____

has submitted proof of having contact with _____ stations
from Croatia with different Croatian pfx.

Award No. _____ Class _____ Mode _____

Koprivnica, _____ Award manager
Kresimir Juratovic 9A7K

All additional information is available on request from the manager, either by post-mail, e-mail, packet radio, or Internet web pages:

- a) Packet radio: 9A7K@9a0ykyz.hrv.eu
- b) E-mail: kresimir.juratovic@kc.htnet.hr or 9a7k@qsl.net
- c) <http://www.qsl.net/9a7k>
- d) <http://www.hamradio.hr/>

Last Jamboree on the Air for Scouting Ireland (CSI) 18th/19th October

Scouting Ireland (CSI) will participate for the last time in the 46th Scout JOTA (Jamboree on the air) which will take on Saturday and Sunday, 18th and 19th October.

Scouting Ireland (CSI) was founded in 1927 and today has in excess of 26,000 members on the island of Ireland. Boys and girls aged from six to nineteen are supported by over four thousand volunteer adult leaders who deliver a varied programme of activities in the out of doors and in the community.

On 1st January 2004, Scouting Ireland (CSI) will join with Scouting Ireland SAI in forming a new association to be called **Scouting Ireland**.

Each year over 500,000 Scouts and Guides from all over the world participate in this event where Scouting experiences are shared as thousands of scouts world-wide speak with each other across the airwaves.

The event lasts from midnight local time Friday night (17th October) to midnight Sunday night (19th October).

Stations participating can choose their own operating hours within this time frame.

Chief Scout in Dundalk

The formal opening of JOTA in Ireland will take place on Saturday, 18th October at 15:00 local time with a short address by the Chief Scout of Scouting Ireland (CSI), Mr Peter Dixon.

The transmission will be made on the 40m WAI frequency and on the Dublin 2m repeater, operating from **EI2DSJ** in Dundalk.

This will be followed by a call in giving Scouts the opportunity to talk with the Chief.

Besides **EI2DSJ** operating from Dundalk, other stations that will be on air for JOTA will be:

EI2SDR/J operating from the Scout Den in Wicklow,

EI4BST/J operating from the Community Centre in Bayside, Dublin

EI5MRC/J operating from the Scout Campsite in Mount Melleray, Co. Waterford,

EI2WRC/J operating from the Sacred Heart Scout Den, The Folly, John's Hill, Waterford City, and

GB0FAS operating from the Scout Den in Ballymoney, Co. Antrim.

Further information regarding JOTA is available from: Sean O'Suilleabhain, EI3IP, National JOTA Organiser (NJO) of Scouting Ireland (CSI) at njo@scoutingirelandcsi.com or at 087 232 6994 or at QTHR or from the Radio Scouting web page of Scouting Ireland (CSI) at www.qsl.net/ei3ip/jota.htm.

Downloads of Radio Scouting handbooks and templates for applications for special event callsigns for both jurisdictions on the island of Ireland are available on the web page.

Paddy EI7GK in Iceland



Paddy EI7GK spent 3 weeks in Iceland during the summer. The day after he arrived in Reykjavik he put up two dipole antennae one for 20m and one for 40m.

Using the call sign TF/EI7GK/p he went on 20m and quickly had a pile up. 40m proved a very useful band for working EI/GI and also for DX working stations in Uruguay and Paraguay.

Paddy also made contact with local Icelandic operators and visited the radio club in Reykjavik where he was welcomed by the President of Íslenskir Radióamatörar (equivalent of the IRTS). He was shown around the club and asked to address the class studying for the licence exam.

Paddy found the Icelandic people very friendly, almost all spoke good English and most adults had been to Dublin. They are especially friendly to Irish people.

It was very easy to drive as the population of the whole country is only about 300,000, so the traffic is light. There were lots of interesting things to see, including Geysers, Thermal pools, boiling mud pots, glaciers etc. The weather in the summer was like April in Ireland, but with 24 hours daylight.

Icelandic operators are active on the bands but one reason why they are not often heard is because they have lots of Aurora activity, which blots out the bands for about 200 days in the year.



EI1C/P SSB Field Day 2003

Anatoly EI4JF, Jerry EI6BT and Stephen EI6JA



On The Air

With Anthony O'Rourke EI2HY

Anthony O'Rourke EI2HY,
13 Hazel Road, Togher, Cork
ei2hy@eircom.net

Welcome to another On the Air column which contains some exciting news about upcoming trips to two of the very rare DXCC Entities!

The Sunspot Cycle shows signs of slowly heading downwards with monthly Sunspot numbers for July, August and September been 132.8, 114.3 and 82.6, average Solar Flux numbers for the same time frame are: 127.1, 122.1 and 112.2

Even though these figures show a gradual smooth slide downward trend conditions are fairly good at the moment, we've passed the Equinox, steady Sunspot numbers coupled with quiet geomagnetic activity have led to surprise openings on **10m** and longer opening times for **15m**.

Band Reports

The big event for the month should have been **3C0V** from Annobon but unfortunately poor conditions, high QRN on their side and simple equipment meant that the team hadn't a great signal to begin with and I just heard them briefly on 10m phone.

Very much QRV though were the Norwegian Team who were on from Market Reef (EU-053) as OJ0LA with big signals on all the main bands.

Joca, PS7JN, was once more QRV from St Peter and Paul Rocks (SA-014) during the first two weeks of September using the call ZW0S and again choose to operate primarily on RTTY and told me in a QSO he has plans to go back there again in March/April next year.

Willi, DJ7RJ, was once again Island hopping in the Pacific during September coming on from, first, Samoa as 5W0MW until Sep 15th before moving on to Tokelau as ZK3MW.

Nob was very active from the club station on Ogasawara as JD1YAB while Andy, G3AB, made over 10,800 QSO's during his one man operation from Christmas Island as VK9XAB.

Guy, FR5ZL, is back on Reunion after his trip to Rodrigues (3B9) and doing some serious Island hopping was Vlad, UA4WHX who popped up from Papua New Guinea as P29VVB (OC-008), H44VV (OC-047), YJ0VB and FW/AC4LN (OC-054).

Kurt, HB9MX, was on from the Sey-

chelles during the month of September using the same call S79MX that he's used for years now and proved very easy to work late into our evenings on the high bands.

Monday the 8th of September saw a rare appearance from the Vatican City when HV0A came on **15m** briefly,

One for the prefix hunters was heard during the All Asian Contest in the form of S61FD who turned out to be on from Singapore, normally using the 9V prefix!

Just one new IOTA to report on this issue.

Italian ops I1SNW, Claudio, IT9EJW, Alfio and IT9YRE, Nando activated Maria Island (OC-264/pr) in the Austral chain of French Polynesia.

After taking a two and a half month break Peter, 4W3CW, is QRV from Timor Lester for another year now.

We had some special event stations on during September including the annual "Route 66 On the Air" event which celebrates the famous Route 66 in the USA which ran from Chicago to California and had stations on using the call sign range N6A to N6M,

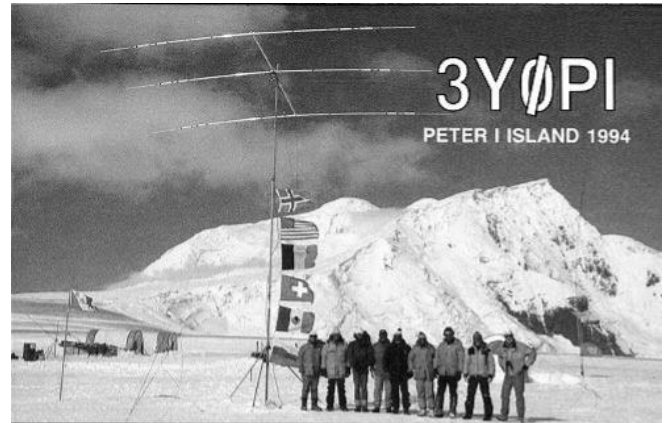
EN100WAY was on from Lvn State Airport in the Ukraine to help celebrate World Aviation Year, SN25JP was on to celebrate Pope John Paul while also worked was HF150NC.

Once again I received a log extract from **Chuck EI4IS**, offering the following for your delight:

DU9/G4UNL, K9YNF/VE9 (NA-014), N1DL, V21PA, VE1WT (NA-081), VP5/AH6HY, W1DIG (NA-217) and YI/S57CQ.

My own band reports are, again, very sparse and consist of RTTY contacts mostly made in the CQ WW RTTY Contest held over the weekend of Sep 27/28 and offered some surprise openings on **10m** including H2E, KH7X on Hawaii long path at 10:02UTC and YM2ZF.

Going onto **15m** we had 9H3MMD, BD5RI, D4B, D44AC, FG/EA2RY, HC8N, OJ0LA, VP5JM, VR2BG, YI9X and just one interesting QSO on RTTY



outside the contest in the form of XZ7A.

Up and Coming

We start with the unfortunate news that the planned trip to Kure Atoll (see last issue) has been cancelled as the group could not be guaranteed transport from Midway Island but to make up for it Jacky, ZL3CW, might still be on from the Kermadecs (OC-039) by the time you read this as he's announced he'll be active between Oct 10-18 using once again ZM8CW during a work assignment, so operating will be done in his spare time.

Also in that part of the world will be Anci, JA2ZL, doing a mini-expedition of his own by first going to Niue Island as ZK2ZY during the time frame Oct 18-24 before going onto Samoa between Oct 25-28 to take part in the CQ WW Phone as 5W0ZY.

Members of the US based Florida DXpedition Group have plans to be on from San Andres (HK0) using their home calls but will use the special call 5J0J for the CQ WW Contest, listen out for: HK0/K4QD, Jan; HK0/N2WB, William; HK0/W4WX, Bill; HK0/N1WON, Cory; HK0/W9AAZ, Clarence; HK0/W1LR, Larry; and HK0/KR4DA, Bob. All this to take place between Oct 20-28.

Now for the exciting piece of news about the first of the two very rare DXCC Entities to be put on the air that I alluded to at the start of the column!

Lying at co-ordinates 22 20S and 40 22E, the French possession of Europa Island (AF-009) is a heavily wooded Island of 28 sq km and is situated in the Mozambique Channel about half-way between the southern tip of Madagascar

(Continued on page 7)

(Continued from page 6)

and south Mozambique.

It forms part of the joint DXCC Entity of Europa (FR/E) and Juan de Nova Islands (FR/J) and is numbered 6 in the Worlds most wanted!

As with all these tiny French dependencies that dot the area like Glorioso (FR/G) and Tromelin (FR/T) access is severely restricted to French Military or to civilian meteorologists and that's the case with this trip planned for Nov 22nd to Dec 5th or 6th as it's a team of eight military operators who obtained the necessary permission to operate from Europa and will include F5OGL, Didier, F5CW, Dany; F5JKK, Eric; F5KIN, Stephan; F5IRO; F0CRS, David; TU5AX, Chris and one more operator. If that didn't whet your appetite enough, hot on it's heels come plans to activate Peter the First Island (3Y0) which is one of the most inhospitable places to visit and last saw activity back in 1994 when 3Y0PI gave out over 60,000 QSO's between Jan 29th to Feb 20th.

Well 10 years on and veterans Bob, K4UUE, and Ralph, K0IR, of the cold weather DX-peditions like Heard announced plans for this major effort scheduled to take place during the Ant-

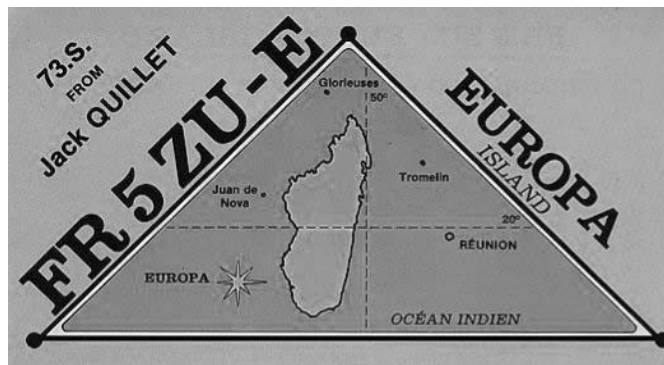
arctic "summer" with a landing date of Jan 9th for a three week visit to include a team of 15 well known and experienced DXers, I've heard nothing from Declan, EI6FR, about whether he's going hi!

The Island was first discovered and named by the Russian explorer Bellingshausen back in 1821 when he was the first person to reach the coastline of Antarctica but subsequently was claimed by Norway when explorers Olstad and Larsen landed there in 1929.

At the time of the 3Y0PI more people had visited the moon than had been to Peter I.

When you've finished working Peter I look out for another major trip organized from Eritrea in Africa which hasn't seen too much activity lately.

The team will comprise of five well seasoned British operators and will include G3AB, Andy Chadwick; G3VMW, Steve Wilson; G3XAQ, Alan Ibbetson; GM3YTS, Rob Ferguson; and G4EDG, Steve Taylor.



The DXpedition will cover two complete weekends and one station will enter the ARRL CW DX Contest. G3AB and G3VMW will stay on in Asmara for another 7-10 days with two high-power stations and 6 meters.

Finally I'd like to extend a big welcome to the HF Bands for all the B licensees who have been burning up the airwaves lately.

Hope you're enjoying it and will now pay a bit more attention to my rambling DX article hi!, that's it for this issue, thanks go to the Daily DX for much of the snippets of DX items so until the next issue, keep listening!

73 de EI2HY

Why Radio Amateurs are called Hams From Florida Skip Magazine 1959

Have you ever wondered why radio amateurs are called "HAMS"?

Well, it goes like this:

The word "HAM" as applied to 1908 was the station call of the first amateur wireless stations operated by some amateurs of the Harvard Radio Club.

They were ALBERT S. HYMAN, BOB ALMY, and POOGIE MURRAY.

At first they called their station "HYMAN-ALMY-MURRAY".

Tapping out such a long name in code soon became tiresome and called for a revision.

They changed it to "HYALMU", using the first two letters of each of their names.

Early in 1910 some confusion resulted between signals from the amateur wireless station "HYALMU" and a Mexican ship named "HYALMO".

They decided to use only the first letter of each name, and the station call became "HAM".

In the early pioneer days of unregulated radio, amateur operators picked their own frequency and call letters. Then, as now, some amateurs had better signals than commercial stations.

The resulting interference came to the attention of congressional committees in Washington and Congress gave much time to proposed legislation designed to critically limit ama-

teur radio activity.

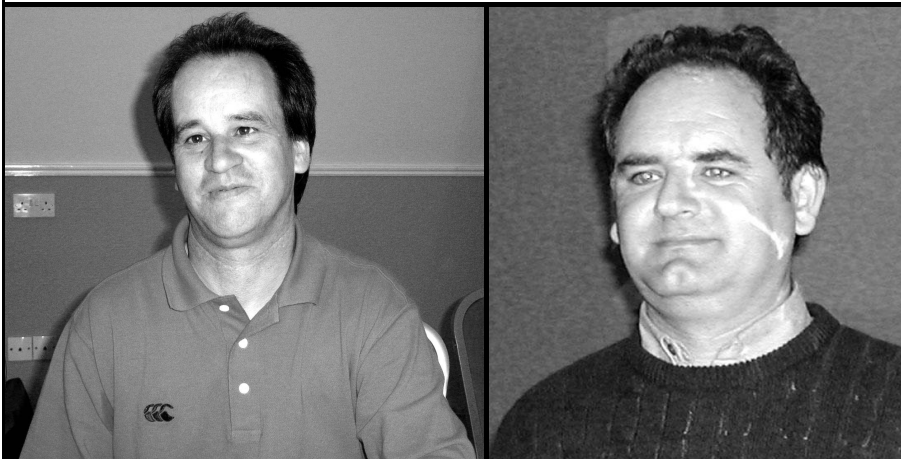
In 1911, Albert Hyman chose the controversial WIRELESS REGULATION BILL as the topic for his thesis at Harvard. His instructor insisted that a copy be sent to Senator David I. Walsh, a member of the committee hearing the bill. The Senator was so impressed with the thesis that he asked Hyman to appear before the committee. Albert Hyman took the stand and described how the little station was built and almost cried when he told the crowded committee room that if the bill went through, they would have to close down the station because they could not afford the license fees and all the other requirements which the bill imposed on amateur stations.

Congressional debate began on the WIRELESS REGULATION BILL and the little station "HAM" became the symbol for all the little amateur stations in the country crying to be saved from the menace and greed of the big commercial stations who didn't want them around. The bill finally got to the floor of Congress and every speaker talked about the "...poor little station HAM". That's how it all started.

You will find the whole story in the Congressional Record. Nationwide publicity associated station "HAM" with amateur radio operators. From that day to this, and probably to the end of time in radio, an amateur is a "HAM".

Thanks to John EI5FOB for this article.

VUCC on 6 Metres FOR EI2JC & EI2JD



THE AMERICAN RADIO RELAY LEAGUE

VUCC

50 MHz 100 Grid Locators

VHF/UHF CENTURY CLUB

Thos Caffrey, EI2JD

has submitted confirmation of having conducted two-way communication with amateur stations in 2° longitude X 1° latitude grid squares on the frequency band indicated. This outstanding achievement has earned the above membership in the exclusive VHF/UHF Century Club (VUCC).

1,319

August 14, 2003

Jim Hejira
President, ARRL

WSJBP

Congratulations to Noel EI2JC (on left) and Thos EI2JD who recently achieved VUCC for working over 100 squares on 6 metres.

Amateur Radio Support Winds Down as Isabel Recovery Continues

Hurricane Isabel is long gone, but its effects linger in the US Southeast, especially in North Carolina. Amateur Radio activities supporting the storm response, relief and recovery have wound down for the most part, but one disaster relief professional has suggested an additional role for Amateur Radio in these kinds of disasters.

In North Carolina, joint Salvation Army Team Emergency Radio Network (SATERN)-Amateur Radio Emergency Service (ARES) support for The Salvation Army's relief efforts in the Morehead City area ended September 30. Well over a dozen ham radio volunteers participated. Carteret County Emergency Coordinator Rich Wright, KR4NU, said his ARES/RACES team helped in areas where ham radio provided the only reliable communication.

"Absolutely no communications available except ham radio," is how Wright described one especially hard-hit area of Carteret County. Wright and his ARES-RACES team stepped in late last week after Salvation Army mobile kitchens from New York needed communication support. Amateurs also were able to assist at several other sites in the region as well as at the command centre in Morehead City.



Horkheimer Prize 2004

Rudolf Horkheimer was one of the first radio amateurs in Germany. His name stands as a synonym for the active amateur, who earns merits of amateur radio in a selfless manner.

The prize bearing his name is awarded by DARC (Deutscher Amateur-Radio-Club) for merits of amateur radio, its further development and the targets of DARC.

The prize can be awarded to one or more persons or institutions and is not restricted to members of DARC. Any member of an amateur radio society in the IARU is entitled for proposals. Self proposals are permitted.

The prize consists of an etched glass-sheet and a money prize for non-personal use. This money may be spent for promotion of amateur radio fully in the judgement of the receiver.

The prize is awarded during the opening of HAM RADIO 2004 fair in Friedrichshafen, Germany.

The proposals must be submitted by March, 31st 2004 to DARC, Lindenallee 4, 34225 Baunatal, Germany.

They shall list name and address of the proposed amateur, a short substantiation, and possibly further information. The decision of the jury is final and cannot be voided.

If there is no fitting proposal the prize will not be awarded.

Scouting Ireland (CSI) launches new Radio Merit Badge.

Pat O'Connor, National Commissioner for Scouts of Scouting Ireland (CSI) has recently approved changes to the Radio Merit Badge.

The emphasis of original badge requirements were weighted towards the theoretical aspects of radio. However members of the Scouting Ireland (CSI) National JOTA Team considered that they were too restrictive and on examining the standard laid down by the Boy Scouts of America and the Scout Association (UK) developed proposals for broadening the requirements which place a greater emphasis on active participation in Radio Scouting activities

Radio Merit Badge

To gain the badge you must complete all the requirements in one of the following alternatives.

- A. 1. Visit an Amateur "Radio Scouting" or Radio Club Station and under the supervision of a Radio Amateur
- contact amateur stations on any 2 continents or any 5 Countries / DXCC Entities contacted,
 - logging details of date, time, call sign, frequency, signal report and location.
 - read from the meters attached to the radio equipment, the actual signal report, the SWR reading and power output for one contact.

- A 2. Log 10 transmissions logging details of date, time, call sign, frequency and readability from at least 3 of the following bands:
- Air band
 - Amateur
 - Commercial / broadcast short wave
 - Marine
 - Other

- A 3. Know the international phonetic alphabet.

- A 4. Know at least 8 Q codes or a least 8 J codes.

- A 5. Be able to recognise the Callsign prefixes of at least 8 Countries / DXCC Entities.

Or

- B. 1. Log 25 different amateur radio stations showing details of date, time, call sign, frequency, signal report and location. (Some broadcast stations may be included.)

- B 2. Demonstrate how to tune in a Shortwave Station (select band, mode, frequency and best receive signal).

- B 3. Give an example of a typical 'greetings message'.

- B 4. Know the more commonly used HF, VHF and UHF amateur frequency bands.

- B 5. Explain in simple terms how radio waves travel around the world.

- B 6. Know the international phonetic alphabet.

- B 7. Know at least 8 Q codes or a least 8 J codes.

- B 8. Be able to recognise the Callsign prefixes of at least 8 Countries / DXCC Entities.

Or

- C. 1. Send and receive a short message by Morse code or Semaphore at a rate of five words per minute.

- C 2. Demonstrate that you know a recognised procedure when sending and receiving a message.

- C 3. Know the international phonetic alphabet.

- C 4. Know at least 8 Q codes or a least 8 J codes.

- C 5. Construct a simple Morse code oscillator and send a short message to the examiner.

Or

- D. 1. Log 25 different citizens' band users contacted showing details of date, time, identification, signal report and location.

- D 2. Discuss with the examiner your experiences in keeping the log, for example, use of equipment and effect of various conditions on range of reception.

- D 3. Demonstrate the use of citizens' band equipment by making a contact with another citizens' band user and maintaining the contact for at least two minutes.

- D 4. Discuss with the examiner the cause of radio and television interference from transmitters and the steps that might be taken to minimise them.

- D 5. Demonstrate that all equipment used conforms with regulations.

Or

- E.1. Construct a radio receiver. A soldering iron should be used in the construction.

- E 2. Know Ohms Law.

- E 3. Explain in simple terms how radio waves travel around the world.

- E 4. Construct a simple dipole antenna.

- E 5. Show that you know what safety precautions should be taken whilst working with electrical equipment.

A Scout who holds a Radio Amateur Licence or the restricted Certificate of Competence in (Marine) Radio Telephony (VHF only) automatically qualifies for this badge.

Cork Repeater Group AGM



Seated L. to R.: Neil EI3JE, Jeremy EI5GM, John EI6AK, Tony EI2CV,
Standing: Jim EI8GS, Anthony EI2HY, Mike EI2IB.

The Annual General Meeting of the Cork repeater group was held at Wilton Park House on Saturday 13th September 2003. A rather quite year was reviewed by the good attendance and reports from Treasurer John Mooney EI6AK and technical Manager Tony Bourke EI2CV were well received. Both VHF and UHF repeaters are working well. The only problems since the last AGM was with the UHF repeater. The group is in a healthy financial state.

The Election of Officers resulted as follows:

Chairman Mike EI2IB

Secretary Jim EI8GS

Treasurer John EI6AK

Tech. Manager Tony EI2CV

Committee members:

Tony EI2HY,

Neil EI3JE,

John EI2FG,

Jeremy EI5GM (ex officio as Chairman of Cork Radio Club).

The lack of activity on both the Cork repeaters was discussed at length without a definite conclusion benign reached. The linking of repeaters to broaden the potential user base was discussed and favoured as one of the solutions. The annual subscription remains at €20.00 and should be paid to John EI6AK QTHR.



Squares Table 2003

Callsign	6m	4m	2m	70cm	23cm	Total
EI8JK	243	0	87	17	5	352
EI2JD	307	2	29	1	0	339
EI5FK	100	1	134	46	0	281
EI3IO	225	15	1	1	0	272
EI7IX	181	1	1	0	0	183
EI3IX	164	2	7	2	0	174
EI3EBB	137	0	10	2	0	149
EI7GL	48	10	24	4	0	86
EI2IV	0	0	66	0	0	66
EI7IR	0	0	29	0	0	29
EI7FAB	3	3	7	2	0	15
EI7BMB	6	0	0	0	0	6

New entries and updates for 2003 to
Joe EI3IX joe_fadden@yahoo.com



W3LPL Visits EI

Well known contester and multi-multi contest station owner Frank Donovan W3LPL toured EI recently. He met with contesters from the Cork area in Killarney and attended a barbeque hosted by Paul EI5DI to meet contesters in Dublin. Picture shows (from left) Jim EI8GS, Frank W3LPL, XYL Phyllis, John EI8IR & Jerry EI6BT.

The Brendan Trophies

These Waterford Crystal trophies (pictured left) will be awarded to the operators who achieve the first contact on 2 Metres between Europe and America (North or South). Full details from the Brendan Trophies Awards Panel, Irish Radio Transmitters Society, P.O. Box 462, Dublin 9. Details also on www.irts.ie

Dave EI4HT on Amsat Oscar 40

Dave Ryan EI4HT has a job we all envy, working as an engineering officer on cruise liners in the Caribbean and the Mediterranean.

On his long breaks at home, he likes to work with the amateur satellites and his most recent project involves Amsat Oscar 40.

This time he has added a converted 60cm Sky dish for the Amsat Oscar 40 downlink on 2401 MHz.

Signals are surprisingly good using a 5.5 turn Helix as the feed and a DB6NT down converter to 145 MHz.

The beacon peaks S9 at times. He also has a home brew G3WDG down converter made up from a kit, and he recommends a big magnifying glass and small tools to put it together.

The uplink antenna is a circular polarized 19 element Yagi for 435 MHz.

All are mounted on a Yaesu G5500 rotator controlled by the EA4TX rotor controller driven by Intrack.

The rig is a FT 847 and he finds that 30 watts is plenty.

The Satellite has a built in over-power alarm called Leila, if you send up too much power and over drive, Leila cuts you off and sends out a series of tones to warn you.

There is plenty of DX available and operating is very casual, not like the Leo Sats where everyone is in a rush.

A typical pass lasts for over 10 hours and there is no drastic Doppler shift.

Dave has made 54 contacts in 15 countries in the first 2 days on the satellite.

Countries include VK6, VU2, FR, XE, DL, GB, PA and lots of US stations.

Information is widely available on the Internet, the best being the Amsat web site that links to many more.

Be warned it's a whole other language that they use for this satellite. It's a good project and fun to operate, but requires a lot of research before purchasing gear or going on the air.



Reading the Mail

By

Michael McNamara, EI2CL

Welcome to compilation #26 of "Reading the Mail" – an account of IRTS QSL Bureau activity from 31 July to 30 September 2003.

I can report that small packets of cards (less than 1 kilo) came from ARBiH Bosnia, EDR, JARL, LRAL Latvia, LRMD, the LABRE divisions for Fortaleza and Piaui, OVSV Austria, SARA Slovakia, and VK3.

Keeping up the volume, larger parcels came from ARRL, REF, PZK, SARL (1 – 2 kilos each), URE (5 kilos), and DARC (9 kilos).

The following were thought worthy of mention:

EM2000B, EX0M, H7DX, HS0ZCW, HZ1AB, LX2CL, OD5IU, NU1AW/4, OM9FOX, S07L, ST0RY, DL3NM/TI6, V51/DJ4SO, V51/7Q7JA, 3W9HRN, 9N7QK, and 9X0A.

Still very obvious was the large number of cards reflecting activity on 50 and 144MHz with USA and Europe.

As well as cards from the many US, Canadian and Japanese islands, for IOTA chasers the following were noticed:

BV3/DJ3KR, C98DC, FP/WOSD, H44LB, H44MS, ID9/OM3YCY, J43DIG, J77J, JI3DST/G, KH0/JQ1NGT, OA4/DL2JRM/p, P29VMS, R1AND, S79WB, T88YK, TI9M, VK9KNE, 5H1HS, 5K0Z, 5W1SA, 8N1OGA, 9M0M, 9Y4/DL5MAE.

As for the card from DL7YS – see picture.

For now, all best wishes and lots of good DX.
Michael McNamara, EI2CL.



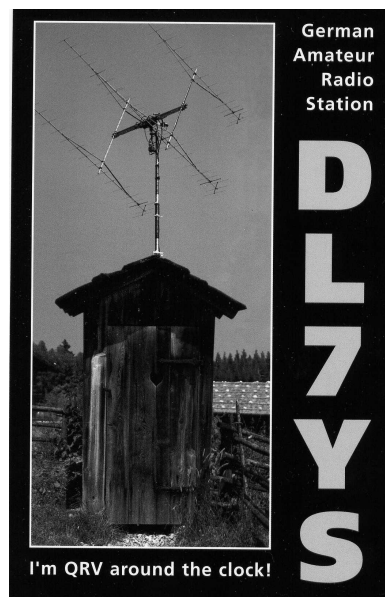
TO RADIO: <i>EI2JD</i>
Date <i>19-7-2003</i> UTC <i>1345</i> MHz <i>50</i> RST <i>5-7</i> 2-Way <i>SSB</i>
Mohamad Daigani Riyadh Saudi Arabia
<i>73</i>

HZ1MD

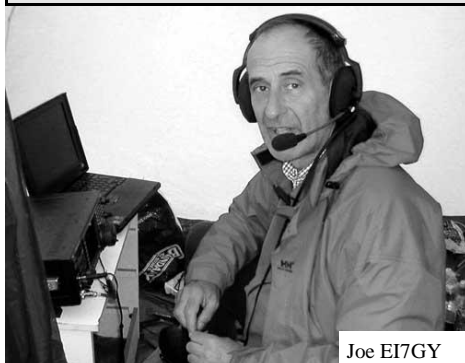
Locator: LL34JQ CQ Zone: 21 ITU: 39 UKSMG #2159
QSL Manager: PA2VST-Sandenburg 40, 1965 NK Heemskerk, The Netherlands

24GHz Moonbounce between U.S. and Czech Republic.

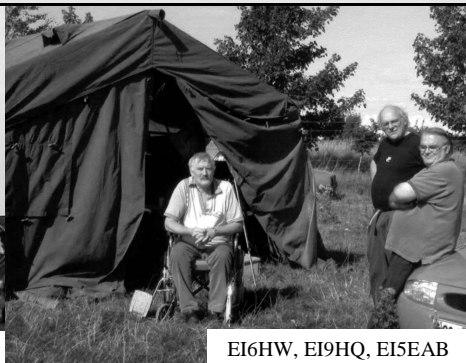
Amateur Radio moonbounce (Earth-Moon-Earth, or EME) and microwave history was made September 24 at 1400 UTC when Josef Sveceny, OK1UWA, and Al Ward, W5LUA, completed the first-ever 24-GHz EME QSO between the Czech Republic and the US. "This was Josef's first 24-GHz EME QSO, and he was my third initial on 24 GHz," said Ward. OK1UWA has a 3-meter Prime Focus dish with 35 W at the feed, vertically polarized. W5LUA's station is a 3-meter Prime Focus dish with 70 W at the feed, horizontally polarized to account for the spatial offset between NA and Europe.



SSB Field Day 2003 at Garbally College, Ballinasloe



Joe EI7GY



EI6HW, EI9HQ, EI5EAB



Paul EI5DI



Peter EI7CC



EI6HW, EI9HX, EI4CF



EI6EW, EI5HD, EI8CE



Declan EI9HQ



Fr. Niall EI4CF



EI9HX, EI6IB



EI4HH, EI7HT



Thos EI2JD

SSB Field Day

Following on from the success of the CW field day it was decided in consultation with interested clubs and individuals to provide a central location to set up stations for the SSB Field day which took place on the 6th & 7th of September.

The Shannon Basin Radio Club offered to the committee, with the kind permission of Fr. Niall Foley EI4CF, the use of St. Joseph's College Garbally, Ballinasloe, Co. Galway and with over 280 acres of beautifully maintained grounds it proved to be an ideal location.

Seven stations set up at the college for the event with participants travelling from all over Ireland and in one fell swoop comfortably provided the highest level of participation in Field Day for many years.

Stations taking part were, South Dublin Radio Club who had a their main station in the open category and also had a

(Continued on page 13)



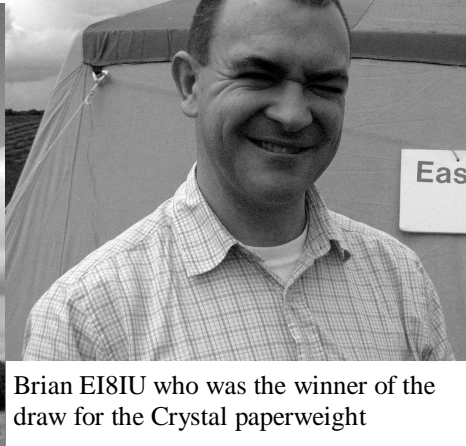
Enda EI2II



Dave EI4BZ



EI2SDR/P



Brian EI8IU who was the winner of the draw for the Crystal paperweight

(Continued from page 12)
second station in the restricted section.

Dalkey Island Contest Group brought seven seasoned operators to spread the load in the restricted section.

Dundalk Amateur Radio Society, also in the restricted section, had a very neat set-up including a barbecue
IRTS President Sean EI4GK and Declan EI9HQ operated in the open section as EI1F but equipment problems frustrated their efforts.

The locally based Shannon Basin Radio Club enjoyed their first Field Day out-ing and were well prepared for bad weather with a fine green tent.
Dave EI4BZ travelled from Cork with-out any operators and with offers of free food and refreshments was hoping to attract journeymen testers to assist at his station.

Enda EI2II saved his bacon!
(The East Cork Group stayed home and joined with Cork Radio Club to mount a major effort in the open section. See page 15)

Paul EI2CA presented the Contest Man-ager with six beautiful Dublin Crystal paperweights each inscribed with 'IRTS SSB Field Day 2003' for use as prizes for the participants at Ballinasloe.

One was presented to Fr. Niall EI4CF as a small thank you for the use of the college grounds, a raffle was held among all the participants and Brian EI8IU was the lucky winner and the remaining 4 will be awarded to the win-ner of each section and the winners of a special 'Field Day Sprint' organised at the site for the best score in each sec-tion between 2000 and 2400 UTC.

In all, almost 30 licensees took part at the various stations over the weekend and there was a steady stream of visi-tors to site and some curiosity from lo-cal people enjoying their walks through the grounds of the college.

The wx was almost perfect until the contest ended and the rain arrived just as it was time to dismantle the stations.

The Contest Manager Noel EI2JC and the IRTS Committee would like to thank all participants in Field Day for their contribution to the success of the event and in particular Fr. Niall EI4CF and the Shannon Basin Radio Club for their invaluable assistance with the fine venue.

Noel EI2JC

Fingal Radio Club visit Telford Rally

On Saturday 30th August 2003, 11 radio amateurs plus the coach driver Mark Pem-broke set off for Telford on the 9.05 Irish Ferries sailing from Dublin Port on M.V Ulysses. We arrived in Holyhead at 12.15 p.m. and headed straight to our B & B in Brosley about 15 miles from the rally.

The journey took about 4 hours with a 30 minute break at a service station to stretch the legs etc.

Dinner was served by our hosts Steve and Maureen in the Lord Hill Guest House at about 6 p.m These dinners are on a par with the finest anywhere on these islands. After dinner the walkers visited the usual places of interest in the town while the non-walkers exercised their arms in lifting drinks of one type or another. All were in the land of nod by 11.30 p.m. as we had booked an early breakfast the next morning.

All were in the dining room by 0715 the following morning and armed with a full huge breakfast we set off for Cosford, a journey which took about 20 minutes. When we arrived we were greeted as old friends and shown to our table which this year was in Hanger No. 2. Hanger No. 1 also had traders and Hanger No. 3 was reserved for bric a brac etc.

The exclamations as we drove up to the hanger were priceless from those who never visited this rally before. Paul EI2JF was in another world when he saw all the aircraft with exclamations like "Oh My God", "I don't believe it" and others which are better forgotten about. However he did know his planes and educated us all on the types and vintage etc.

A roster was made out so two would be at the table at all times and the others with lust in their eyes set about looking for bargains amongst the many many stalls. Most of the large traders were in Hanger No. 1 while the lesser ones were in Hanger No. 2 about 100 meters away with the road linking them full of the flea market.

The whole show was superb in the way everything could be seen with plenty of room between the stalls. In discussion with the organisers of the show they told me that exhibitors were up 50% and that attendance by the punters up about 300% They ran out of car parking space by about 1300 with those arriving after that time having to park at least a mile away. The cars were parked under the wings of planes out in the open and to give you an idea of outdoor space, the total car park space was about 7 acres! So this will tell you the amount of people who turned up for the show. In my humble opinion the person who came up with the idea of having the show in the mu-seum deserves a medal and I also believe that within a few years it will be a two day event again.

We had to depart at 1500 to allow for traffic etc and even at this time the whole area was covered in people still looking for bargains. Usually by 1400, the crowds have thinned out etc. and traders are beginning to pack up etc. Not so this time. I also must say it was the best show I have ever attended and all on this trip agreed.

We arrived back in Dublin Port at 10 p.m. without any delays and Mark began his journey around the city dropping people off at locations near their homes.

I would like to thanks all those who travelled on the bus and who made it one of those memorable journeys for all the right reasons.

Those travelling were:

Andy EI4ERB, Paul EI2JF, Peter EI5JE, Nick EI2JL, Leo EI6ALB, Nick eile EI9JF, Sean EI7CD, Joe EI7GW, Brendan EI4BB and Kevin Barry another member at Fin-gal.

Also many thanks to Gerry Pembroke our usual coach driver and his son Mark who drove this year due to Gerry attending a wedding.

I also must mention the members of Telford and District radio club for their help and welcome when we arrived.

Liam EI3HK



Simple, Cheap and Easy

By Ger Kenneally EI8HT

<http://www.qsl.net/sv1bsx/windom/windom.html>

I've been looking for an antenna to work on 80m for some time, the problem is I don't have the space to fit a resonant dipole (as Elmer the Yank would say) on the lot.

Also, I intended to work stroke-portable for the last week in July, so what was needed was something like a Doublet, G5RV or a Windom.

Above all whichever antenna I chose, it had to be home-brewed, why?

Because by now you should all know that Ger thinks it is a mortal sin to spend any of the XYL's hard earned cash on commercial antennas, when with a little thought and a thick neck (thick-neck needed for lifting scrap wire from Telecoms scrap-bin), it can as they say be home-brewed for a fraction of the cost.

So what did I come up with?

Well after speaking to Mike EI4HF, looking through several books and surfing the net we came across the SV1BSX web site. The address is as per the heading.

What did we find?

A coaxial fed Windom, not like any Windom I'd ever seen before and for a start there was no twin-feed or open-wire.

All that was needed was about five inch's of ferrite rod, two short length's of soft insulated wire each about a foot long, 42m of hard drawn copper wire and enough 75 Ohm coax to reach back into the shack.

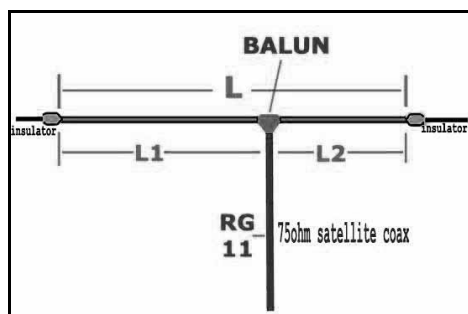


FIG1 (from SV1BSX)

L=41m: L1=27.5m: L2=13.5m

Where according to the heading does "Cheap" come into it?

Well all I had to spend to get the Windom up and running was the cost of the

coax. Then again this should not be taken onto account because, no matter what type of antenna you use, you'll still have to buy some sort of feed-line be it coax or twin-feed.

Should I add the cost of the self amalgamating tape, or the cost of the insulators? (made from pieces of scrap PVC). What I'm trying to say is if you forget about the coax then it cost me absolutely nothing as I already had all that was needed in my junk-box.

So how did I go about building it?

First I measured out 42m of insulated copper wire (courtesy of Telecoms scrap bin), the over-all length of antenna is 41m and the extra is needed for making off at the insulators.

Remember always measure twice before you cut, believe me you will save yourself a lot of grief if you do.

Now if you follow as in Fig. 1 you'll find it pretty simple.

First I cut 28m off the length of wire for **L1**, the extra 1/2m used for making off onto the insulators. You end up with 27.5m from insulator to insulator.

Did the same with **L2** only this time ended with 13.5m.

Next we move onto the Balun, this is as they say the guts of the antenna. Again quiet simple to make-up, that is if you can get your hands on the ferrite rod.

The diagram in "Fig 2" is the best and simplest one I've seen to follow.

The wire for the balun is some soft or pliable wire from an old power lead, best if you use two different colors.

They must be the same length (about a foot long) 9 or 10 turns on the ferrite rod, trim off the excess, solder as in Fig 2.

B is then connected to **L1** (Fig1)

A is connected to **L2** (Fig1).

Seal everything up and the job as they say is OXO.

Looks simple and it is. Over the years I've built and used a G5RV, doublet and a 1/2 size Carolina Windom, all of which I've found to be pretty good for what they were, then again they were only a compromise. Now with the coax fed

4 to 1 Balun

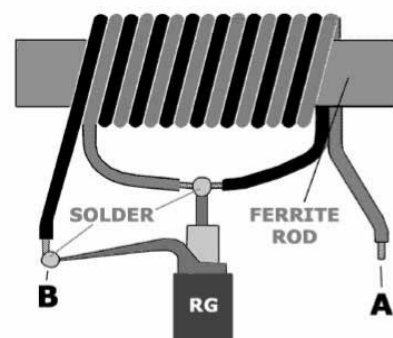


Fig2 (FromSV1BSX)

Windom again a compromise, I found that it performed just as well as all the other multi-band antennas, only difference and a very important difference I found was that it was so much easier or simpler to build.

I'd agree with Mak SV1BSX's findings on the performance of the Windom over a dipole.

I also found that it was between 1 and 2 S points down on my 40m dipole and again on my 30m dipole.

I didn't have anything up for 80m to make a comparison and I don't think it would be fair to compare it against the 2 element quad which I had for all the higher bands.

So why not have a go?

I was at the Cork Radio Clubs rally in Blarney last weekend and I noticed that the traders were selling "Deluxe G5RV's" costing anything up to €100. Always wondered what the difference was between a deluxe and standard model G5RV?

Apart from the cost, I can't for the life of me see how one performs better then the other.

If you think about it you could buy yourself a half-decent power supply or desk-mike for that, even dare I say it go some way towards paying for a HF rig.

And now that CW has been abolished as a requirement I'm sure there's lots of "good buddies" out there waiting to get on the bands.

The finished product (4/1 balun) or as I

(Continued on page 15)

(Continued from page 14)

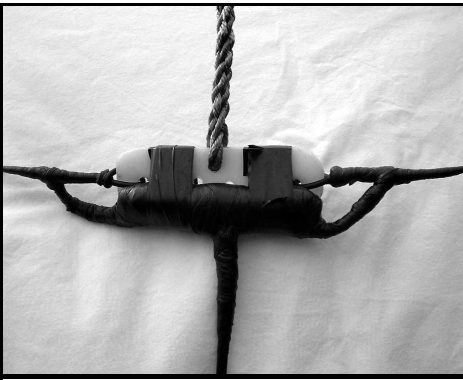


Fig 3

prefer to call it the guts of the antenna. So go on have a go you'll be pleasantly surprised at how simple it is. Also just think of all the lovely lolly you'll have saved to spend on other goodies for the shack.

The Windom can just be seen suspended

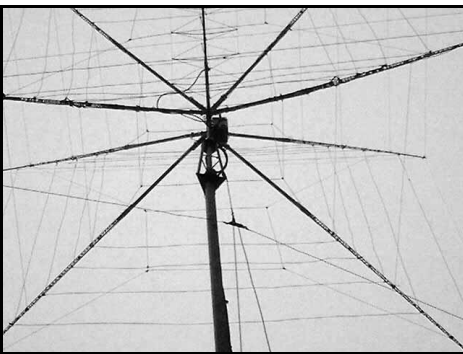


Fig 4

from the rotator cage.

My thanks to Mak SV1BSX for permission to use some of the diagrams from his website. Do have a look at his site its well worth a gander.

de Ger EI8HT.

New 2 Metre Trans-Atlantic Beacon

The Marconi Radio Club of St. Johns, Newfoundland and the Caccalieu Amateur Radio Club of Carbonear are currently working to put a new 2 metre transatlantic beacon on the air.

The callsign for the beacon is yet to be decided. It will operate on 144.4 MHz with power output of 250 Watts into an 11 element Yagi situated about 90 metres above sea level.

Public Service Amateur Radio Emergency Network

Local and National Nets

Membership of AREN, the Voluntary Radio Communications Service, is continuing to grow and membership is becoming distributed over the country. The 2m local Nets and the national net on 40 meters 7.043 plus or minus QRM, takes place on the first Tuesday of each month and the winter time for the 40 meter net changes in October to 1930 local as opposed to 2130 local during the winter months.

No special equipment or skills are needed to in order to become involved in the voluntary communications service.

Activation

The local VHF/UHF net was placed on standby by net control in the Cork area during September as a result of the activation of the local councils major emergency plan to deal with the circumstances surrounding a fire on the north side of the city. Six members stood by for twenty hours from 1600 on September 25th until 1200 on the 26th.

Training

Training manuals dealing with such areas as message handling, map reading and health and safety on major emergency sites are currently being prepared and group and individuals are to attend one-day training sessions. Anybody wishing to join these training events should make contact with the Public Service Organisers.

A 48-hour standby and call-in exercise using power provided by sources other than the national grid is planned for the near future. This is designed to prepare operators for a failure of the national grid, such as that experienced recently in the UK and in the US.

Contact

Contact can be made with the group through EI2GN at ketch@indigo, on 021-4323283 during office hours or otherwise on 086-2593-005.

SSB Field Day 2003 in Cork EI1C/P



Centre: Ingo DH5ST & Neil EI3JE. Bottom: Jeremy EI5GM

Both Cork Radio Club and the East Cork Group have a long record in entering SSB Field Day.

This year, under the guidance of Neil EI3JE from the East Cork group and Jeremy EI5GM, Chairman of the Cork Club, it was decided to mount a joint effort in the open section with the intention of doing well in the German Field Day.

The site used was the farm of Jack Cashman EI7FD, the site usually used by the Cork Club and a comprehensive station was set up using two mobile towers and some pipe masts.

In excess of 1600 QSOs were made.

Those involved were:

Neil EI3JE, Jeremy EI5GM, Jerry EI6BT, John EI8IR, Jim E8GS, Ingo DH5ST, Stephen EI6JA, Anatolij EI4JF and Finbarr EI1CS.

Thanks to Jack Cashman EI7FD for use of the facilities and Finbarr EI1CS for the caravan.

Club Roundup

EI5HAM

Blind and Disabled Group

The Group have resumed meetings at St. Joseph's School for the Visually Impaired, Drumcondra, Dublin on Monday evenings and also the Radio Net on 145.575 from 7.45 to 8.45 p.m.

Everyone is welcome to call in to this net and give useful operating practice to the young members.

The Group propose setting up a HF station over the coming weeks.

On behalf of the IRTS, the Group distributes Echo Ireland in special format to white stick IRTS members and a new list of those interested in receiving the newsletter by E-mail or by post on floppy disk is now being compiled.

Please note that post recipients should return pouches and disks as soon as possible to be included in the list for the next issue. If any IRTS white stick members had not computer facilities, it can be arranged to have cassette tapes organised.

For inclusion in the new list, please contact Joe EI4FV at 01 8390812 (address QTHR) or by E-mail at: ei4fv@eircom.net

Those who have received the last Newsletter on disk, need not re-apply.

South Eastern Amateur Radio Group

John EI8JA and Eoin EI7FXB took part in the EI Counties Contest on Sunday last. Using the callsign EI2WRC/P from White Mountain, Co. Wexford, the group made a large number of QSO's.

The next general meeting of the club will take place on Wednesday the 29th of October at 8.00 p.m. in the Roanmore Social and Sports Centre, Cleaboy Road, Waterford. All are welcome.

The 2 metre voice repeater EI2WRC at Mt. Leinster will remain off air for the next couple of weeks for essential maintenance and upgrade.

Updates will be announced in coming weeks.

Shannon Basin Radio Club.

The Shannon Basin Radio Club would like to thank all the clubs who participated, in the 2003 SSB Field Day contest held in St Josephs College, Garbally Park Grounds, Ballinasloe, Co Galway.

This was the first time that such a Field Day was held in the Shannon Basin region and we were very proud to be able to accommodate such a wonderful turn out, from clubs who came from far and near.

We hope that all who participated and visited Ballinasloe for the field day enjoyed themselves, as we would be hoping to host the 2004 SSB event.

The Shannon Basin Radio Club would like to say a special word of thanks to Fr Niall Foley EI4CF Vice President of Garbally College, who very kindly made the Grounds and services available for this special event.

Phoenix Amateur Radio Club

Phoenix Amateur Radio Club are planning a theory course leading to the Radio Experimenter Examination.

Classes will be held in Coolmine on Thursday evenings 7pm to 8.30pm.

For further information contact Dan Lloyd at 01-8382774 or at Daniellloyd@eircom.net.

South Dublin Radio Club

Counties Contest

Although there was no entry from South Dublin Radio Club in the Autumn Counties Contest, a number of SDR members were active individually during the contest.

Mike EI4JL was on Sorrel Hill in Wicklow, also in Wicklow Kyle EI2JO operated from Tonlaguee.

Joe EI7GY was back in the Midlands, this time on Arderin, Co. Laois, the highest point in the Slieve Bloom Mountains, while Tom EI7HT operated from home in County Dublin.

Theory Classes

Classes in radio theory commenced in South Dublin Radio Club on Tuesday 23rd September, at 8.00 pm.

Anyone interested in joining these classes is asked to come along, to a club meeting, on Tuesday evenings. The classes will be held in the club QTH, which is the Ballyroan Community Centre, Marian Road, Rathfarnham, Dublin 14.

SSB Field Day

Members of South Dublin Radio Club participated in the recent SSB Field Day.

The club was one of 7 groups who operated from the grounds of Garbally College, Ballinasloe, Co. Galway. Photos taken during the event can be seen on the club's web site at <http://www.qsl.net/ei2sdr/>

Pirate Broadcasters in the U.K. under new pressure

Pirate broadcasters in the United Kingdom will be under a lot of pressure under new regulations just brought in to force

New powers of arrest were introduced on the 18th of September in an attempt to combat pirate radio stations. The police, working with Radiocommunications Agency investigators, will now be able to arrest a pirate broadcaster or anybody suspected of supporting or facilitating illegal broadcasting.

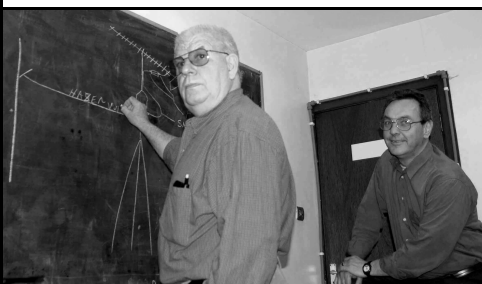
Previously police could only detain someone if they suspected them of giving a false name and address or another criminal act, such as a breach of the peace or assault. The new powers of arrest will also extend to acts of deliberate interference with radio communications and hoax calls, especially false distress calls.

The Communications Minister Stephen Timms said: "These new powers will be an important weapon in the campaign against pirate broadcasters. By interfering with communications services which are vital for public safety, pirates can put lives at risk. They also cause interference with other licensed radio users and can be a social nuisance to those who live near pirate stations."

Dundalk Amateur Radio Society

The Dundalk Amateur Radio Society (DARS) is made up of a small group of people whose interests include Contesting, rag chewing, experimenting, especially in Amateur Television. We have our own premises at 113 Castletown Road, Dundalk where we meet on the first Wednesday of the month and visitors are always welcome. We have a 2m Repeater located just north of Dundalk on the frequency 145.675.

We have had a busy year both with contesting and experimenting. On the experimenting side of things we have successfully held classes in ATV over the past year. (Photo 1) This has yielded



Michael EI5GG teaching the ATV class

a few of the members and friends to build their own TX and RX ATV stations. We are also near completion of the club ATV station. Many thanks go out to Michael EI5GG for passing on to

us the enthusiasm he himself has for this section of the hobby. Members & friends currently experimenting on ATV include: EI5GG, EI2AK, EI2HX, EI9FX, MI3SBI and EI4DIB.

On the contesting side of things the members had a busy year with both the IRTS contests and some of the bigger worldwide contests.

In the **2m Spring Counties** contest both last year and this year we had some competitive rivalry from the South Dublin Radio Club in the High Power Portable Section. Last year they were on the Ridge of Cappard and this year they went to Co. Leitrim and on both occasions they pipped us to the post – Congrats.



Spring Counties Contest
EI9FX, EI5GG, Aaron SWL, MI5AHG, EI2AK, EI2JD & EI2HX

DARS activated Co. Louth on both occasions. (Photo 2) This years results were again high scoring and very close. 7800 v 7300.

In the **2m Autumn Counties** contest our chairman Thos EI2JD took first place in the Low Power Fixed section.

In the **IRTS VHF/UHF Field day** we picked up the **IRTS VHF Shield** for first place in the restricted section (2m only) using the call sign EI7DAR/p.

In the **IRTS HF Field day** we picked up the **IRTS HF Shield** for first place in the restricted section using the call sign EI2JD/p.

The team included: EI2JD, EI2HX, EI4HX, EI9IB, EI6JK. The **Ian Morris Trophy** is awarded by the IRTS every year to

the leading Shortwave Listener. This year it was awarded to one of our very own, *Jenny EI1463*. Congrats

We were also involved in the **IOTA** contest last year with the DDG contest group. This group was made up of clubs from Dublin (EI2SDR), Dundalk (EI7DAR) and Glen-gormley (GN0XYZ) using the call sign *EJ5E*.

19 of a group went to Inishbofin Island EU-121 where there were lots of craic and loads of experience gained.

Other contests we were involved with included the IARU contest as EI0HQ on 20m and the ARRL 10m contest.

Thos EI2JD is also actively involved in the VHF Squares Table, which you will find at <http://www.qsl.net/ei7gl/sqtable.htm>

Other trophies picked up by members included the S.D.R. Autumn Challenge Open Section and the S.D.R. Spring Challenge CW section, both by EI2JD.

We also had the pleasure of the company of the Chief Scout of Ireland

to officially start Jamboree on the Air (**JOTA**). He gave a brief talk on 40m and on the Dublin 2m repeater and stood by for a call-in from scouts around the country.

On a more sombre note we lost two well-known members over the past year. First was our (Past) President EI3K Gene Larkin and second was our (Past) treasurer GI0PED/EI6ID Paddy Serridge. Both are sadly missed.

73 from all at Dundalk A.R.S.. We look forward to hearing or seeing you on the bands over the coming year.



Counties Contest
2 x 10 el 2 metre Yagis



SSB Field Day 2002



Club President Fr. Pat EI5DA



ARRL "Logbook of the World" Goes Live!

NEWINGTON, CT, Sep 15, 2003--

"Logbook of the World" (LoTW)--the long-awaited QSL-cardless ARRL awards and contact credit system--has officially opened for business. Under development for more than two years, LoTW underwent a successful period of beta testing earlier this year. The system is open to all.

"Although Logbook of the World is a tremendous resource for hams chasing DXCC, VHF/UHF Century Club (VUCC), Worked All States (WAS) and other awards, we hope it will appeal to hams who are not currently active in these awards programs," said ARRL Chief Operating Officer Mark Wilson, K1RO. "The proliferation of logging software has stimulated activity and interest in contesting, and submitting log data and verifying award credits online is a logical next step."

Wilson commended ARRL Web and Software Development Department Manager Jon Bloom, KE3Z, and the other contributors to the project "for their dedication and hard work that made Logbook a reality."

First Things First

Before submitting log data and putting LoTW to use to confirm contact credits, users must download the LoTW software and request a digital certificate that ties the participant's identity to a digital key. This means a stop at the ARRL Logbook of the World Web page. Data integrity has been a watchword of the LoTW since the project's conception, and that starts with a digital certificate, something all LoTW users must have. For a digital signature or certificate to be trustworthy, ARRL must first ensure the identity of the person to whom it's issued, and that will involve a combination of on-line filing and good old-fashioned snail mail.

"We will need to verify you are who you say you are," ARRL Membership Services Manager Wayne Mills, N7NG, explains. "The security of the entire system depends heavily on the method used for verifying the user's identity." This first step is called *authentication*.

For US amateurs, this process will rely on your mailing

address in the FCC database. Users should make sure the FCC has their current mailing address. Amateurs can modify their address online or via US mail by using instructions available on the FCC Web site. ARRL members may submit license modifications through the ARRL VEC.

For non-US amateurs, authentication will rely on other documentation, primarily a copy of the participant's Amateur Radio license and another official identifying document. Mail these copies to ARRL, Logbook of the World Administrator, 225 Main St, Newington, CT 06111 USA.

Assuming everything goes smoothly, US licensees requesting a digital certificate soon will receive a postcard in the mail that contains a password. They then should go to the LoTW Web site and enter the password to complete the processing of their certificate request. Instructions for locating the password are on the back of the postcard. The call sign you submit when entering your password must be the same as the one used to request your digital certificate. Once the password has been entered, the digital certificate will be e-mailed within a working day or two.

Non-US stations will receive their digital certificate via e-mail once their documentation has been received at ARRL HQ and authenticated.

Participants will be able to use their primary digital certificates to obtain additional certificates necessary to submit log data and obtain award credit for contacts made under formerly held call signs.

Everyone who plans to use LoTW first must obtain a digital certificate. There are no exceptions. Any certificates issued during beta testing no longer are valid, and any log data submitted during LoTW testing has been deleted from the system along with those certificates.

At the heart of the Logbook of the World concept will be a huge repository of log data provided by operators--from individual DXers and testers to major DXpeditions--and maintained by ARRL. Mills says the system will benefit big and little guns alike by providing quick QSO credit for ARRL-sponsored awards--in particular DXCC.

It's hoped LoTW eventually will be able to confirm contacts for awards offered by other organizations.

The Quick Start Guide to LoTW

In a nutshell, to use LoTW, participants must:

- Download the LoTW software.
- Submit a request for a digital certificate from ARRL.
- After receiving a password, upload your password and associated call sign on the LoTW Web site to receive your digital certificate.

(Continued on page 19)

(Continued from page 18)

- Use that digital certificate to "sign" either Amateur Data Interchange Format (ADIF) or Cabrillo-formatted files.
- Submit those digitally signed files to LoTW via e-mail or upload them to the Web site.
- Receive a confirmation from LoTW acknowledging receipt of the log data.

It's That Easy!

Those who have submitted contest logs via e-mail will find this process to be nearly the same except for the added requirement to sign the log.

Once your data have been accepted into LoTW you will be able to visit the LoTW Web site to see your data and any QSOs that have been confirmed via matching data from other stations' log submissions. Mills emphasizes that Logbook of the World is not an effort to replace traditional paper QSL cards for those who wish to exchange and collect them. He says paper QSL cards will continue to be accepted as credit toward DXCC and other ARRL-sponsored awards, but that LoTW will make life easier for those whose primary goal is obtaining contact credit toward various awards.

Obtaining a digital certificate and uploading log data are free of charge. There will be a per-QSO charge for each contact credit *used*, but Mills expects it will be much less than the typical costs involved with exchanging paper QSL cards.

When you use an LoTW confirmation for an award credit, the fee will be added to your account and shown in the user's record. The user will be able to pay for these charges on-line using a credit card.

Some Important Points

ARRL will not serve as the QSL manager for any station submitting logs to Logbook of the World. "If a contact is not in the log, you will need to work that out with the station involved," Mills said.

An article, "Introducing Logbook of the World," by Wayne Mills, N7NG, appears in the October issue of *QST*.

LoTW eventually will be able to search users' DXCC records and find new credits automatically.

The program also will provide full viewing of users' DXCC records, automatically alert users to new awards achieved and offer comprehensive support for many other awards.

Logging software developers can obtain documentation and a *Windows* DLL library--as well as complete source code for the *TQSL* software--at the SourceForge Web site.

News and announcements will be posted to the Logbook of the World Web site.

Letters Page

Hello Dave,

Now that the annual SSB field day has just finished I have some thoughts on field days that I would like to share with your readers. The original idea of field days was to prepare amateurs for emergency operation without all the home comforts. (e.g. mains supply, towers etc.) I recognize that field days are still portable operations without mains electrical supply. Most field day set-ups are geared towards DX work. This is not the type of communications that we would need in an emergency set up. We would communicate with other stations in IRELAND not with DX stations. If people looked through their field day contest logs and picked out the number of Irish stations worked this figure would be low.

These DX geared field day stations normally pick a good radio site (high ground etc.) in an emergency we would not have the luxury of picking our own site but would have to operate from a site near the emergency. The time taken to set up field stations are not fast because stations are so complex.

I think that either changes to the field day approach or another field day that is more closely geared to a realistic emergency operation in Ireland are needed. One suggestion is have a HF counties contest that limits operation to EI-GI. As well as the normal multipliers for counties there could be multipliers for location. The worst location the more points, down at the bottom of the valley, as opposed to the top of a hill. Also the sections i.e. restricted and open could be based on set-up time. An under 2 hour set-up section, an under 4 hour and an under 8 hour section may be appropriate.

I am sure that there are other ideas that could be used to make our Field Day more of an exercise in emergency preparedness. So I would be interested in receiving any input from interested parties.

73 de Stephen O'Leary EI6JA
Email sgol@eircom.net

International Amateur Radio Union

NU1AW/4

53rd Annual Operation Stations Provided by

Paul Hellenberg, K4JA
Bob Morris, W4MYA

IARU HF World Championship
8404 QSOs in 24 Hours

All CW QSOs from Northumberland County, Virginia FM17

All SSB QSOs from Goosechland County, Virginia FM07

Operators: K1SE, K4EU, K4JA, K4KJL, K4KML, K4WMA, K4ZV, K7MX, K7SV, N4DWK, N4EHJ, N4ZJ, N4ZR, W3BP, W4HJ, W4MYA, W4TNX, WA4PGM, WK4Y, WU4G

The story behind NU1AW

At first, amateur stations had no prefixes indicating the country where they were located. After transoceanic amateur radio communication became commonplace in 1924, hams began using an informal system of prefixes (called "intermediates" at the time) where "A" stood for Australia, "C" for Canada, "U" for United States, etc. This worked fine at first, but did not provide enough options. January 1927 *QST* unveiled a new intermediate list--the work of the Executive Committee of the International Amateur Radio Union (IARU). It was a two-letter system with the first letter indicating the continent ("A" for Asia, "N" for North America, "F" for Africa, etc.) and the second letter indicating the country. Thus, stations in the 48 United States used "NU."

The new system was soon overtaken by events. International regulations adopted later that same year included the allocation of a series of "call signals" such as K, N, and W for the United States. US amateurs sported the voluntary NU prefix for just 20 months before it was replaced with W.

The founding president of the IARU was Hiram Percy Maxim, IAW, who held that office until his death in 1936. In 1996, the FCC issued the IARU the call sign NU1AW. It commemorates HPM and the IARU's creative--if short-lived--solution to the problem of international identification of stations.

Since that time, the IARU has grown to include member societies in 150 countries. **This card confirms one or more contacts during the IARU HF World Championship.**

CONFIRMING QSO WITH				To Radio:				DAY MONTH YEAR		
NU1AW/4 confirms the following QSO(s):				EI2CL						
Date	Time	Band	Mode	RST						
2002-07-13	21:39	20m	CW	599						
UTC MHz				2x MODE				RST		
TNX for the QSO(s) -- Verified by NT1N -- No return QSL required										

Shannon Basin Radio Club EI2SBC

Annual Challenge on November 2nd 2004

This challenge is open to all experimenters and short wave listeners living in EI.

The purpose of this challenge is to encourage radio operators and short wave listeners to be active on the H.F bands.

1. General:

The participants must operate in accordance with the terms of their licence.

- 1.1 Only one contact to be claimed per band with a specific station.
- 1.2 Points will be deducted for errors in the log.
- 1.3 Duplicate contacts must be logged and clearly marked without claim for points.
- 1.4 Unmarked duplicates will be penalised at 10 times the number of points claimed.
- 1.5 Logs containing more than three unmarked duplicates will be disqualified.
- 1.6 Proof of contact may be required.
- 1.7 This challenge is for fixed stations and is single operator with no assistance for log keeping etc.

2. Date and Time

- 2.1 The first Sunday of November, from 08.00 to 20.00

3. Sections.

Open Section

Only one section, max 400W PEP.

There is no restriction on the number, type or height of antennas.

4. Notification

Persons intending to compete must send notification 10-days prior to the contest date with full address details, call sign to be used etc to the contest manager.

5. Inspection

Stations are subject to random inspections by representatives of the challenge.

6. Bands and Modes

SSB and CW contacts in the **1.8, 3.5, 7, 14, 21, 28** MHz bands, operations are to be within contest preferred segments as recommended in the IARU Region 1 band plan

7. Scoring.

- 7.1 Points will be awarded for each completed QSO as follows.

Fixed stations in Europe including EI, IARU Region 1.

2pts

Fixed stations outside Europe

6pts

Each DXCC country worked on each band gives one multiplier, the final score is the points total multiplied by the multiplier total.

- 7.2 In the event that there is a tie for top score, the winner will be the person with the highest number of DXCC countries worked

- 7.3 Log entries for which points are claimed to show the following:

Date/Time UTC,
frequency,
mode,
station worked,
signal report sent and received,
name of operator,
together with contact number i.e. 001,002, etc.

8. Entries

- 8.1. Entries to be submitted as follows, typed, Disc, e-mail, or hand written, complete with claimed score and statement that the rules and the spirit of the challenge were adhered to.

Completed entries to be post stamped not later than the 30th of November 03 and sent to the **Contest Manager EI6HW** at the following address:

nfmulvihill@eircom.net or

Noel Mulvihill,

Hillquarter, Coosan,

Athlone, Co Westmeath

9. Perpetual Awards

The **Lough Allen Shield** is awarded to the highest checked score on SSB.

The **Lough Ree Shield** is awarded to the highest checked score on CW (A1A).

The **Lough Derg Shield** is awarded to the highest checked score on SWL.

NB. Shannon Basin member entries will be independently checked

CQWW CW 2002 EI Results

Call	Bands	Score	QSOS	Zones	DXCC
EI4BZ	A	1,913,512	2,542	95	329
EI6FR	A	304,480	916	55	165
EI4CF	28	63,612	279	24	90
EI5DI	28	58,955	395	16	49

ROHN Files Chapter 11

A company that literally as well as figuratively supports more ham radio antennas than any other is fighting for its survival. This as tower manufacturer Rohn Industries announces that it and five of its subsidiaries have filed for Chapter 11 bankruptcy relief in federal court.

Subject to the provisions of the Bankruptcy Code, the September 16th filing means that Rohn remains in possession of its properties and continues to operate its business. The company says that the objective of the Chapter 11 proceeding is to maximize recovery to creditors by facilitating an orderly sale of its assets. (QRZ.com)

Islands On The Air Contest 2003 - Claimed Scores

(As published on www.rsgbhfcc.org)

<i>Call</i>	<i>IOTA</i>	<i>QTH</i>	<i>Category</i>	<i>Hrs</i>	<i>Mode</i>	<i>Power</i>	<i>DX-ped</i>	<i>Points</i>	<i>Mults</i>	<i>QSOs</i>
DX-pedition High Power										
EJ2SDR	EU-121	Inishbofin Island	Multi-op	24	Mix	High	Island	Yes	2,132,712	228 1,378
DX-pedition Low Power										
EJ7M	EU-121	Bere Island	Multi-op	24	Mix	Low	Island	Yes	2,030,976	246 1,360
DX-pedition 12 Hour SSB										
EJ9HQ	EU-121	Aranmore Island	Single-op	12	SSB	High	Island	Yes	542,169	107 649
24 Hour SSB High Power										
EI8GS	EU-115	Ireland	Single-op	24	SSB	High	Island	No	805,068	132 1,097
EI2JD	EU-115	Ireland	Single-op	24	SSB	High	Island	No	492,480	120 496
24 Hour SSB Low Power										
EI7IQ	EU-115	Ireland	Single-op	24	SSB	Low	Island	No	470,979	129 413
EI7CC	EU-115	Ireland	Single-op	24	SSB	Low	Island	No	280,053	111 261
EI2II	EU-115	Ireland	Single-op	24	SSB	Low	Island	No	147,609	77 239
24 Mixed High Power										
EI7GY	EU-115	Ireland	Single-op	24	Mix	High	Island	No	270,072	93 440
12 Hour Mixed Low Power										
EI4CF	EU-115	Ireland	Single-op	12	Mix	Low	Island	No	322,125	125 279
EI5DI	EU-115	Ireland	Single-op	12	Mix	Low	Island	No	26,976	32 109
12 Hour CW High Power										
EI4DW	EU-115	Ireland	Single-op	12	CW	High	Island	No	188,082	86 293
12 Hour CW Low Power										
EI6IZ	EU-115	Ireland	Single-op	12	CW	Low	Island	No	165,504	64 434
EI8JM	EU-115	Ireland	Single-op	12	CW	Low	Island	No	78,351	49 177

Irish Radio Transmitters Society VHF/UHF Field Day Possible Rule Changes

The IRTS Committee are looking at the rules governing scoring in the VHF/UHF Field Day with a view to making some changes.

Interested individuals or groups are invited to make submissions to the Contest Manager, Noel EI2JC at QTHR or at (nwalsh@eircom.ie)

WI-FI World Record

Interline Wireless Technology, a Polish company has reportedly set a world record in stretching the range of a Wi-Fi network for an amazing 110 Kms at 2.4 GHz. They achieved this using an antenna developed by them and an INTEL Wireless Access Point.

The Interline report on their web site www.interline.pl - in Polish - seems to show and say that, on their mountain-top site, in what we would consider "Amateur Radio" field-day conditions, they generated 500mW into a 27dB 1.1m off-axis parabolic section dish. It seems to say that the reverse direction from the base station was 6 watts into a 2.4m dish

Contest Calendar

October 2003

18/19th	1500-1459	Worked All Germany Contest	CW/SSB
25/26th	0000-2359	CQ WW DX Contest	SSB

November 2003

1/2nd	1200-1200	Ukrainian DX Contest	CW/SSB/RTTY
8/9th	0000-2359	Worked All Europe DX Contest	RTTY
8/9th	0700-1300	Japan International DX Contest	SSB
8/9	1200-1200	OK/OM DX Contest	CW
15/16th	1600-0700	All Austrian DX Contest 160m	CW
16/17th	2100-0100	RSGB 1.8 MHz Contest	CW
21st	1600-2200	YO International PSK31 Contest	PSK31
29/30th	0000-2359	CQ WW DX Contest	CW

December 2003

5/7th	2200-1600	ARRL 160m Contest	CW
6/7th	1800-1800	TOPS Activity Contest 80m	CW
13/14th	0000-23559	ARRL 10m Contest	CW/SSB
19th	2100-2300	Russian 160m Contest	CW/SSB
20th	0000-2359	OK DX RTTY Contest	RTTY
20/21st	1400-1400	Croatian CW Contest	CW
20/21st	1600-1600	International Naval Activity	CW/SSB
27th	0000-2359	RAC Canada Winter Contest	CW
27/28th	1500-1500	Stew Perry 160m Distance Challenge	CW



Contest Corner

With
Dave EI4BZ
ei4bz@eircom.net

Welcome to another issue just in time for the main contest season.

CQWW SSB

The CQ WW SSB contest is on at the end of the month and usually draws big EI participation.

This year it should be of even bigger interest with all the new EI's on the HF bands. It's a very quick way to increase the country totals worked. A look at the EI records in the last issue of Echo Ireland will tell you what's attainable. The CW leg is held over the last weekend in November.

IOTA Contest

The unchecked scores from all EI/EJ participants are listed on the previous page and they show an increase of one on the previous best number of entries. There will be a new name on the IRTS IOTA trophy this year.

Shannon Basin Challenge

The Shannon Basin Club have come up with an interesting one day challenge to be held annually on the first Sunday in November.

Please read the rules on page 20 and particularly note that you must enter in advance.

It's something new and deserves support.

Autumn Counties Contest

Early indications are that participation in the Autumn Counties Contest was well down on the Spring event. This seems to be normal and maybe another date change might be in order.

Debate on the QSY rule continues but the results show that all scores are up. Maybe a few of the big guns suffered a bit but overall most stations benefited. Like many other subjects, a reasoned submission to the contest manager is preferable to private moaning and abstaining from the event.

SSB Field Day

I was fortunate to be a participant in the recent SSB Field Day and with some fine tuning, it has the potential to be a great annual occasion.

Loads of contests coming up so hope to hear you in there.

73 de EI4BZ

CQWW CW EI Records (Up to and Including 2002)

	Callsign	Score	QSOs	Zones	DXCC	Year
All	EI4BZ	1,913,512	2,542	95	329	2002
10	EI6BT	198,128	838	31	91	2000
15	EI8GP	358,150	1,388	32	98	2000
20	EI3DP	525,968	1,715	36	106	1996
40	EI4BZ	197,912	1,131	23	81	2000
80	EI4BZ	142,870	1,140	18	73	2001
160	EI7M (9HC)	123,214	858	19	72	1996

Low Power

LAll	EI4DW	844,190	1,225	80	210	1999
L10	EI5DI	238,784	1,087	25	66	1992
L15	EI6FR	246,848	1,171	32	101	1998
L20	EI6FR	264,537	1,035	29	104	1996
L40	No entry					
L80	EI6FR	56,161	742	12	59	1997
L160	EI7IU	31,507	482	11	50	1998

Assisted (packet)

A All	EI4DW	453,789	655	81	262	2001
A 10	EI6FR	370,678	1,269	36	118	1999
A 15	No entry					
A 20	EI8GP	142,044	602	26	88	1996
A40	No entry					
A80	No entry					
A 160	No entry					

Multi-Single

MS	EI7M	3,815,169	3,395	121	398	1993
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Multi-Multi

MM	No entry					
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ARRL Contests 2003 - EI Results

SSB	Score	QSOs	Mults	Band	Category	
EJ9HQ	125,736	806	52	20m	Single op	Low Power
EI4CF	119,448	711	56	15m	Single Op	Low Power
EI4DW	66,435	215	103	All	Single Op	High Power
CW						
EI4DW	224,895	517	145	All	Single Op	High Power
EI4BZ	209,222	1,186	59	20m	Single Op	High Power (4th EU)
EI4CF	93,849	287	109	All	Single Op	Low Power

CW Field Day 2003 - Results

Open Section	QSOs	Points	Operators
1. Cork Radio Club EI1X/P	600	1875	EI5GM, EI6JA, EI4JF, EI4IS
Restricted Section			
1. East Cork R.G. EI7M/P	836	2748	EI6BT, EI9HC, EI4BZ
2. Joe Ryan EI7GY/P	362	1625	EI7GY

This Field Day was held at a central location (farm of Paddy EI3AV in Cloughjordan). See May/June issue of Echo Ireland for report and pictures.



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Pat EI6HF 0503-40086 or 087-6716895

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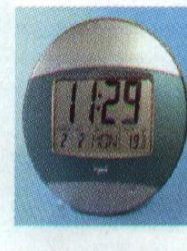
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